Time : 2 Hours   **DOMESTIC WIRING**

Pre-Vocational (Electrical Group)

Subject Code

S	0	4	1

Total No. Of Questions : 4   **(Printed Pages : 3)**   **Maximum Marks : 40**

INSTRUCTION : (*i*)   Answer each question on a fresh page.

(*ii*)   Write the serial number of the questions and sub-questions

clearly.

(*iii*)   Figures to the right indicate full marks.

(*iv*)   *All* questions are compulsory.

(*v*)   Draw neat labelled diagrams wherever necessary.

1.   (A)   Answer the following in *one* word/sentence :   1×2=2

(*i*)   Name the instrument used to measure power.

(*ii*)   What is an artificial magnet ?

(B)   Answer the following in brief :   3×2=6

(*i*)   Explain the construction of Energy meter. Where is Energy

meter used ?

(*ii*)   With a neat labelled circuit diagram explain Megger.

(C)   Answer the following in short :   2×1=2

(*i*)   Mention any *two* advantages and *two* disadvantages of

Distribution system of Domestic wiring.

2. (A) Define the following : 1×2=2

   (i) Self-induction.

   (ii) Kirchhoff's Voltage law.

   (B) Answer the following in brief : 3×2=6

   (i) What are permanent magnets ? Mention any *two* properties and *two* uses of magnets.

   (ii) Explain how electric supply comes in our houses from street poles and goes to different consuming points.

   (C) Answer the following in short : 2×1=2

   Draw a neat labelled diagram of 'Tree system' of electrical wiring.

3. (A) Answer in *one or two* words : 1×2=2

   (i) Name the system of wiring where fault location is difficult.

   (ii) Name the tool which is used to find the gauge of winding wires.

   (B) Answer the following in short : 2×2=4

   (i) Draw a neat labelled diagram of Mallet and explain.

   (ii) With a neat labelled diagram explain Ball Peen hammer.

   (C) Answer the following in detail : 4×1=4

   (i) Explain the *four* laws of Resistances.

   Or

   (ii) State Ohm's law. Calculate the value of current through a resistance of 10 ohms, if it is connected across a battery of 1.5 volts.

4. (A) Answer the following questions in brief : 1×2=2

   (i) Why flexible stand is provided for the table lamp ?

   (ii) What is a series test lamp ?

   (B) Answer the following in brief : 2×2=4

   (i) Explain the construction of Electric Kettle.

   (ii) Explain the construction of Immersion water heater.

   (C) Answer the following in detail : 4×1=4

   (i) With the help of a neat circuit diagram explain series parallel testing board.

   Or

   (ii) With a neat diagram explain the necessity of thermostat in Automatic electric iron.